



IN THE CLAIMS

Please amend the claims pursuant to 37 C.F.R. 1.121 as follows (a "marked up" version pursuant to 1.121 is not necessary):

Claims 1-2 were cancelled, without prejudice. New Claims 3-~~10~~¹¹ were added.

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3. (New) A method for producing laser radiation comprising the steps of:
- (a) determining a beam path direction of a frequency conversion crystal which results in a minimum degradation of generated converted frequency; and
 - (b) amplifying radiation of an optical pumping source by using an optical cavity having at least one frequency conversion crystal disposed such that said crystal is passed by the radiation only in the determined beam path direction.
4. (New) A frequency-converted laser apparatus comprising
- an optical pumping source and at least one frequency conversion crystal forming a uni-directional beam path.
5. (New) A frequency-converted laser apparatus using frequency converting crystals comprising
- an optical pumping source and a resonant uni-directional cavity having at least one frequency conversion crystal.
6. (New) The frequency-converted laser apparatus according to claim 4, wherein the frequency conversion crystal is disposed in such a way that said crystal is passed by the radiation only in previously determined preferred beam path direction.

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7. (New) The frequency-converted laser apparatus according to claim 5, wherein the resonant uni-directional cavity is an external resonant unidirectional cavity.

8. (New) The frequency-converted laser apparatus according to claim 5, wherein the resonant uni-directional cavity comprises a prism, at least two mirrors and a frequency conversion crystal.

9. (New) A frequency-converted laser apparatus according to claim 4, wherein the frequency conversion crystal is a Brewster-cut Beta-Borium Borate (β -BaB₂O₄ or BBO) crystal or a Lithium Triborate (LiB₃O₅ or LBO) crystal.

10. (New) A frequency-converted laser apparatus according to claim 4, further comprising a stage amplifier.

11. (New) A frequency-converted laser apparatus according to claim 7, wherein the prism is connected to a piezoelectric element.

REMARKS

This communication is in response to the Office Action mailed September 25, 2002. Claims 1-2 have been cancelled, without prejudice, and new claims 3-11 have been added. No new matter was added. Reconsideration of the outstanding rejections in view of the amendments and remarks herein is respectfully requested.

The Examiner objects to the drawings under 37 CFR 1.83(a) for minor informalities. The Examiner states that the figures 1-2 are not labeled as required by 37 CFR 1.83(a). Applicants submit drawings for approval as required by rule 37 CFR 1.123. In view of this submission, applicants request that the objections to the drawings be withdrawn and the new drawing entered.